BRAUATH BANGALORE MAHANAGARA PALIKE (BBMP)

Detailed Modified Estimate EXTERNAL ELECTRICAL WORKS

NAME OF WORK:CONSTRUCTION OF MPED BUILDING (GOVT SCHOOL) AT JALAHALLI VILLAGE IN WARD NO.16 .

Sl No	Description	Unit	No	L	B	H	Qty	Rate	Amount
273	Supplying erection, testing and commissioning of 3Way 11KV Load Break switch with connected accessories, hardwares etc., suitable for outdoor type complete as per IS standard technical specification. LBS should be approved by BESCOM.	Each	1				1.00	306,693.00	306,693.00
274	Supplying erection, testing and commissioning of Load Break switch with 4 wire -(with neutral) metering cubicle and connected accessories, hardwares etc., suitable for outdoor type complete as per IS standard technical specification. LBS should be approved by BESCOM.	Each	1				1.00	367,825.00	367,825.00
275	Supplying, erection, testing and commissioning100KVA Capacity Copper wound distribution transformer 11KV/433V with Off Load Tap Switch, Buchholtz relay winding temperature indicator, oil temperature indicator, marshalling box with wiring, magnetic oil level indicator with +5% to -10% steps of 2.5% with HT and LT cable end boxes including all standard accessories as per latest IS standard technical specification.	Each	1				1.00	377,841.00	377,841.00
	HT Cables								
276	Supplying and laying of high tension 11KV cable dry curing & dry cooling with true triple extrusion, simultaniously through a single common head, 3core under ground XLPE cable having stranded compact circular aluminium conductor, screened insulated, insulation screened with extruded semiconducting compound in combination with copper tape, core laid up inner sheathe of PVC tape GI flat strip armoured and overall PVC sheathed with specified IS 7098/11/85 with latest amendments & confirming to the GTP of Group-A								
	3Cx95Sqmm	Mtr	1.00	100.00			100.00		
	SB Qty	50.00							
	Qty Up to 125%	62.50					62.50	1195.00	74688.00
	(P.No.83, I.No.15.3.1 S.R 2018-19)	1040.00							
	Total Rs	1040.00							
	Tender Premium +14.95%	155.48							
	Total Rs	1195.48							
	Above 125% of Qty						37.50	1195.48	44831.00
277	Supplying and making 11KV(E) Extruded "X" linked for tubing & moulded & cross linked components using heat shrink stress control tube having high permitivity XLPE terminations- INDOOR & OUTDOOR JOINTING KIT & confirming to the GTP.								
	OUT DOOR								
a	3Cx/95/120Sqmm	Kit	1	2			2.00	11,619.00	23,238.00
	Item no 8-8.2.1-P No-68 Ele SR14-15								
	IN DOOR								
278	3Cx95/120Sqmm	Kit	1	6			6.00	9,625.00	57,750.00
	Item no 8-8.2.5-P No-68 Ele SR14-15								
279	Chemical earthing for grounding, conduits, IC cutouts & other equipments on the meter board by using copper bonded / SS rod with earth enhancing bcakfill compound which is noncorrosive thermally conductive, potential to permissibel limits, superior fault conduction capacity, non toxic, weather resistance & capable of achieving Ohmic value less than one Ohm.								
	Using 10ft copper bonded rod with backfill								
	Item no 7-7.23.3-P No-64 Ele SR14-15	Each	1	12			12	8621.00	103,452.00
280	Supplying and running of GI/copper strips for grounding connections, using necessary fixing materials as required.								
	GI Strip								
a	25x3mm								
	item No7-7.3.1-P No55	Mtr	1	30			30	89.00	2,670.00
281	25x6mm								
	Item No7-7.3.2- P. No55	Mtr	1	20			20	136.00	2,720.00

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Sl No	Description	Unit	No	L	B	H	Qty	Rate	Amount
	Copper Strip								
282	25x3mm								
	Item No7-7.3.6- P no 55	Mtr	1	10			10	601.00	6,010.00
283	25x6mm								
	Item No7-7.3.7-P.No55	Each	1	10			10	1170.00	11,700.00
284	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanised, steel wire/steel tap armoured cable with PVC outer sheathing 1.1 KV class								
I	Class 'A' PVC cable								
a	4Core 10Sqmm								
	SB Qty	Mtr	1	80			80		
	Qty Up to 125%	50.00							
	(P.No.40, I.No.6.4.2 S.R 2018-19)	62.50					**62.50**	**137.00**	**8563.00**
	Total Rs	130.00							
	Tender Premium +14.95%	130.00							
	Total Rs	19.44							
	Above 125% of Qty	149.44							
							17.50	**149.44**	**2615.00**
285	NOT OPERATED								
		Mtr	1	0			0	190.00	-
286	3.5Core 150Sqmm								
		Mtr	1	50			50	756.00	37,800.00
287	Labour charges for layingof 1.1 KVclass UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall/ on pole as required.								
I	In existing trench/duct								
a	6sqmm to 16sqmm								
		Mtr	1	80			80	12.00	960.00
288	185sqmm to 240sqmm								
		Mtr	1	0			0	31.00	-
289	On wall/structure								
c	6sqmm to 16sqmm								
		Mtr	1	15			15	36.00	540.00
290	185sqmm to 240sqmm								
		Mtr	1	10			10	51.00	510.00
291	Digging of trench of 0.6m deep x 0.50 mtr wide refiling the trench to the required ground level and consolidating etc., complete.(As . per Civil SA KSAB 1-2, P-7)								
	in soil (ordinary)								
		Mtr	1	20			20	90.00	1,800.00
292	Providing and filling sand in excavated trench to cover already laid UGcable to a depth of 150mm alround the cable.								
		Mtr	1	20			20	118.00	2,360.00
293	Providing and laying in position 100mm dia stone ware pipe in exisitng trench.								
		M	1	20			20	256.00	5,120.00
294	Supplying and fixing of class A (mediumduty) GI pipe of wall thick ness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UGcable of 1.1 KVclass.								
	80mm								
		Mtr	1	12			12	816.00	9,792.00
295	Supplying and fiixing of heavy duty cable glands suitable for UG cable of 1.1 KVclass (metal only)								
	75mm dia	Each	1	2			2	590.00	1,180.0
296	100mm dia	Each	1	5			5	1,147.00	5,735.0
297	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes								
	16Sqmm Long Barrel	Each	1	20			20	13.00	260
298	25Sqmm Long Barrel								

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Sl No	Description	Unit	No	L	B	H	Qty	Rate	Amount
299	150Sqmm Long Barrel	Each	1	5			5	24.00	120.00
300	185Sqmm Long Barrel	Each	1	10			10	278.00	2,780.00
		Each	1	10			10	389.00	3,890.00
7	**FENCING**								
301	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineer-in-charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete)								
		Mtr	12	3.00	--	--	36.00	1066.00	**38,376.00**
302	Providing chain link fencing 50mm size of 8 guage properly stretched between rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint								
		Sqm	1	20.00	--	2.10	42.00	888.00	**37,296.00**
							Total for External Electrical		**1,539,115.00**
				Annexures					
303	**LT Kiosk Panel**								
	Annexure-A								
	Incoming								
	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of overload and short circuit with the thermal magnetic/micro processor release and earth fault as per IS -13947 (Icu=Ics)								
	320 -400Amps 4Pole 50kA	Each	1				1	28,175.00	28,175.00
304	Supplying, fixing of LED type panel board indicating lamp with required colour suitable for 220VA.C 50HZ 12/24V DC.								
		Each	3				3	508.00	1,524.00
305	Supplying 100 amps rated 3phase with neutral bus bar using requiemedcapacity electrolyticaluminium strips covered with heat shrinkable couloured PVC sleeve, mounted on phenolic/FRP/DMC insulator whcih are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete.								
	100Amps 4x50x10mm Alluminium Strips	Rmtr	3				3	2,454.00	7,362.00
306	Supplying and fixing angle iron frame work fabricated out of M.S.angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint.								
	75x75x6mm	Rmtr	1				26	546.00	14,196.00
307	Fabricating supplying and mounting MS box made out... SWG suitable for floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover,equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete								
	14SWG	Sq Cm					56000	0.54	30,240.00
308	Supplying and fixing hylum brand hand plastic sheet 3mm thick with necessary nitches for fixing switches, regulators etc.and fixing on existing wood or metal box using N.F. screws.								
		Sq Cm					6000	0.36	2,160.00
	Total								**83,657.00**
309	**Main Panel**								
	Annexure-B								
	Incoming								
1	Supplying of On load change over switches 4poles, AC- 23A duty, 415V, 50Hz, AC supply.								
	400Amps	Each	1				1	33,500.00	33,500.00

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Sl No	Description	Unit	No	L	B	H	Qty	Rate	Amount
310	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete.								
	320 -400Amps 4Pole 50kA	Each	1				1	28,175.00	28,175.00
311	Supplying, fixing and wiring earth leakage relay with core balanced current transformer suitable for single phase 50 Hz AC with latest microcontroller based, digital readout of pecentage leakage current, programable delay/auto/manual reset facility suitable to mount on DIN rail/ flush mounting on panel board.								
		Each	1				1	9194.00	9,194.00
312	Supplying of multi function digital Meter with three line back light LCD type display of voltage, Current, frequency,Power, power factor,KVA, KWH,KVAR suitable for 3 phase, 4 wire LT network with IP 54 degree of protection and completely wired as required with communication port and class 0.5s accuracy.								
		Each	1				1	9199.00	9,199.00
313	Supplying, fixing and wiring 50/5 to 400/5 Amps 5VA burden Current Transformer. Class 0.5 accurecy with tape wound								
		Each	3				3	555.00	1,665.00
314	Supplying, fixing of LED type panel board indicating lamp with required colour suitable for 220VA.C 50HZ 12/24V DC.								
		Each	3				3	508.00	1,524.00
315	Supplying 400 amps rated 3phase with neutral bus bar using requiemedcapacity electrolyticaluminium strips covered with heat shrinkable couloured PVC sleeve, mounted on phenolic/FRP/DMC insulator whcih are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete.								
	400Amps 4x50x10mm Alluminium Strips								
		Rmtr	1	6			6	4,395.00	26,370.00
	OutGoings:								
316	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete.								
	125Amps 4Pole 25kA								
		Each	1				1	8,474.00	8,474.00
317	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' type curve, indicator ON/OFF, energy cross-3 with short circuit breaking capacity of 10K and complete wiring as required.								
	63A TPN MCB								
a		Each	1	12			12	2,225.00	26,700.00
318	Supplying ,fixing and wiring heavy duty low voltage capacitors conforming to IS 2834. 3 phase, 400/440 volts grade, for power factor improvement of rotating machinery. Cost per KVAR.								
		KVAR	1				1	476.00	476.00
319	Supplying and fixing angle iron frame work fabricated out of M.S.angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint.								
	75x75x6mm								
		Rmtr	1	30			30	546.00	16,380.00
320	Fabricating supplying and mounting MS box made out... SWG suitable for floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover,equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete								
	14SWG								
		Sq Cm	1	148000			148,000.00	0.54	79,920.00
321	Supplying and fixing hylum brand hand plastic sheet 3mm thick with necessary nitches for fixing switches, regulators etc.and fixing on existing wood or metal box using N.F. screws.								
		Sq Cm	1	4000			40000	0.36	14,400.00
	Total								**255,977.00**

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Sl No	Description	Unit	No	L	B	H	Qty	Rate	Amount
322	**Lift Panel**								
	Annexure-E								
	Incoming								
	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete.								
	63Amps 4Pole 25kA		Each				1	6,677.00	6,677.00
323	Supplying, fixing and wiring 3 Phase Digital Ammeter/Voltmeter		Each				2	1,407.00	2,814.00
324	Supplying, fixing and wiring rotary selector switch suitable for ammeter		Each				1	198.00	198.00
325	Supplying, fixing and wiring rotary selector switch suitable for voltmeter		Each				1	161.00	161.00
326	Supplying, fixing and wiring 50/5 to 400/5 Amps 5VA burden Current Transformer. Class 0.5 accurecy with tape wound		Each				3	555.00	1,665.00
327	Supplying, fixing of LED type panel board indicating lamp with required colour suitable for 220VA.C 50HZ 12/24V DC.		Each				3	508.00	1,524.00
328	Supplying 100 amps rated 3phase with neutral bus bar using requiemedcapacity electrolyticaluminium strips covered with heat shrinkable couloured PVC sleeve, mounted on phenolic/FRP/DMC insulator whcih are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete.								
	100Amps 4x30x6mm Alluminium Strips		Rmtr				1	2,454.00	2,454.00
	OutGoings:								
329	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' type curve, indicator ON/OFF, energy cross-3 with short circuit breaking capacity of 10K and complete wiring as required.								
a	5-32A SP MCB		Each				3	480.00	1,440.00
330	5-32A DP MCB		Each				3	976.00	2,928.00
331	40-63A TPN MCB		Each				1	2,225.00	2,225.00
332	Supplying and fixing angle iron frame work fabricated out of M.S.angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint.								
	40x40x6mm		Rmtr				14	546.00	7,644.00
333	Fabricating supplying and mounting MS box made out... SWG suitable for floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover,equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete								
	14SWG		Sq Cm				32000	0.54	17,280.00
334	Supplying and fixing hylum brand hand plastic sheet 3mm thick with necessary nitches for fixing switches, regulators etc.and fixing on existing wood or metal box using N.F. screws.								
			Sq Cm				6000	0.36	2,160.00
									49,170.00
	Total							TOTAL AMOUNT OF EXTERNAL ELECTRICAL WORKS	**1,927,919.00**

Assistnt Executive Engineer(P)

Assistant Executive Engineer(p)
BBMP,RR Nagar

Executive Engineer(p)
BBMP,RR Nagar

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BANGALORE BHRUHUT MAHANAGAR PALIKE

DETAILED MODIFIED ESTIMATE FOR PLUMBING & SANITARY WORKS- FOR M P E D BUILDING

NAME OF WORK:**CONSTRUCTION OF MPED BUILDING (GOVT SCHOOL) AT JALAHALLI VILLAGE IN WARD NO.16 .**

Sl No	Description of work	Unit	No	Dimensions L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	PLUMBING & SANITARY WORKS								
	INTERNAL SANITARY FIXTURES								
335	KSRB 11-5 : Providing and fixing white vitreous china clay, water closet European type (Pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11								
		Each	4	4.00	--	--	16.00	6,300.00	100,800.00
336	KSRB 11-4 : Providing and fixing white vitreous china clay, water closet Orissa pattern of size 580 x 440mm with integral type footrests, 100mm S or P trap, (approved make) cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11								
		Each	4	2.00	--	--	8.00	5,383.00	43,064.00
337	KSRB 11-11.1 : Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11								
		Nos	4	4.00			16.00	4824.00	77184.00
338	KSRB 11-9.2 : Providing and fixing white vitreous china clay, flat back or half stall urinal basin of size 580x380x350mm in the range of two with 7.5 litres P.V.C automatic flushing cistern, C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps, C.I. trap with outlet grating and other couplings in C.P brass painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 1								
		Nos	4	3			12.00	10323.00	123876.00
339	Providing fixing C.P brass towel rail 600mm length, 20mm dia with C.P brackets,fixed to wooden cleats with C.P brass screws including cost of materials,labour complete as per specifications. Make: Jaquar, Range-continental , Model No-1121								
		Unit	4	3			12.00	881.00	10572.00
340	KSRB 11-15.1 : Providing and fixing 600x450mm bevellead edge mirror of superior glass with 6mm hard board backing and fixed to wooden cleats with C.P screws, washers, including cost of materials, labour complete as per specifications.								
		Unit	4	4			16.00		
	SB Qty	11.00							
	Qty Up to 125%	13.75					13.75	1553.00	21354.00
	(P.No.84, I.No.12.39 S.R 2018-19)	1157.00							
	Total Rs	1157.00							
	Tender Premium +14.95%	172.97							
	Total Rs	1329.97							
	Above 125% of Qty						2.25	1329.97	2992.00
341	Supply, fixing, testing and commissioning of 20 mm CP brass bib cock with wall flange and suitable length extension pipe etc,. complete as per specification.								
		Nos	4	5			20.00	302.00	6040.00
342	Providing and fixing in position brass stop cock of approved quality 20 mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. etc,. ,. complete as per specification.								
		Nos	4	5			20.00	199.00	3980.0

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343	Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot). - 10cms x 7.5cms									
		Nos	4	8			32.00	310.00	9920.00	
344	KSRB 2-2.1: Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m.after breaking of clods complete as per specification. Specification. No.KBS 2.1(a)/2.3.5									
	Qty Include All Plumbing Related Works	Cum	1	100	0.6	0.6	36.00	235.00	8460.00	
345	Providing & fixing Chorinated Poly Venyl Chloride **(CPVC)** 20 mm dia pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00m spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and cost of cutting chases and making good the same including testing of joints complete. **(concealed work including cutting chases and good the walls etc.)**									
							80.00	261.00	20880.00	
a	20mm dia (-do- with Internal plumbing Qty (Conceiled in wall)	Rmt.	4	20						
346	Providing and fixing chorinated poly venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (External work)									
							50.00	155.00	7750.00	
a	20mm dia	Rmt.	1	50						
							150.00	205.00	30750.00	
347	25mm dia	Rmt.	1	150						
							200.00			
348	32mm dia	Rmt.	1	200						
	SB Qty	50.00								
	Qty Up to 125%	62.50					62.50	267.00	16688.00	
	(P.No.99, I.No.13.87.5 S.R 2018-19)	226.00								
	Total Rs	226.00								
	Tender Premium +14.95%	33.79								
	Total Rs	259.79								
	Above 125% of Qty						137.50	259.79	35721.00	
349	KSRB13-6.3-7: Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 32**mm** nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS 13.2.6/13.3									
a	-do'- with 32 mm dia (Screwed ends)	Nos.	1	4			4.00	1208.00	4832.00	
350	KSRB13-6.4-2 : Providing and fixing in position brass ball valve high or low pressure with plastic float of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification									
b	25mm dia nominal	Nos.	1	1			1.00	745.00	745.00	
351	NOT OPERATED						0.00	752.00	0.00	
352	Supply, installation, testing and commissioning electrically driven SUBMERSIIBLE pump of capacity 2HP / 1.5 KW with 12 stages Single phase, 50Hz, 400/440V AC supply with necessary non-return valves, butterfly valves,,Pressure gauge & Pressure switch with inter-connecting wiring etc., complete as per standard design. (For pumping the domestic water from the underground sump to the overhead water tank).									

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	Make/Brand :ATALANTA,SUGUNA, C.R.I.,KIRLOSKAR AND OTHER	NOS		1	1					
	OVER HEAD TANK ACCESSORIE							1.00	19243.00	19243.00
353	Supplying water storage tanks made of virgin polymer (LLDPE) with two layers outer Black or Blue and inner White layer of approved quality and make, conforming to I.S.I./ISO/SSI specifications.									
		litres		1	2000					
	INTERNAL SANITARY SYSTEM							2000.00	7.00	14000.00
	SOIL VENT AND RAIN WATER PIPES									
354	Providing and fixing to wall, ceiling and floor unplasticised 110 mm dia PVC Pipes of 6.00 kgs/sqcm working pressure with pipe fittings, wall clips etc., and making good the wall, ceiling and floor for sanitary pipelines including cost of all materials, labour charges, HOM of acquirements and testing complete as per specifications									
a	110 mm dia	Rmt		9	10			90.00		
b	110 mm dia Rain water pipes			3	15			45.00		
				6	15			90.00		
								225.00	**511.00**	**114975.00**
355	Providing and fixing to wall, ceiling and floor unplasticised PVC pipes 10.00 kgf/sq.cm working pressure chemp plast / Wavin or equivalent make with pipe fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials,with 110mm outer									
b	110 mm dia for sewer line	Rmt		1	90			90		
	SB Qty	70.00								
	Qty Up to 125%	87.50						**87.50**	**854.00**	**74725.00**
	(P.No.96, I.No.13.73.5 S.R 2018-19)	595.00								
	Total Rs	595.00								
	Tender Premium +14.95%	88.95								
	Total Rs	683.95								
	Above 125% of Qty							**2.50**	**683.95**	**1710.00**
356	160 mm Dia	Rmt		1	50			50	**1800.00**	**90000.00**
357	KSRB 12-8.1 : Constructing brick masonry inspection chamber 600 x 600mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover with frame (light									
	IC for Sewage	each		1	8			8	**11116.00**	**88928.00**
								Total amount for Plumbing & Sanitary work		**929189.00**

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BRAUATH BANGALORE MAHANAGARA PALIKE (BBMP)

EXTRA ITEM RATE LIST(EIRL)

NAME OF WORK:CONSTRUCTION OF MPED BUILDING (GOVT SCHOOL) AT JALAHALLI VILLAGE IN WARD NO.16.

Sl No	Description of work	Unit	No	Dimensions			Quantity	Rate in Rs.	Amount in Rs.
				L	B	D			
1	2	3	4	5	6	7	8	9	10
1	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface** such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2								
	Basement Floor								
	Retaining wall								
	Lift Pit Wall		2	105.00		2.50	525.00		
			2	9.00		4.50	81.00		
							606.00		
	Ground Floor					say	**606.00**		
	Lift Shaft wall - upto First flr		2	9.00		3.600	64.80		
	Deduct Door Openings		-2	1.00		2.100	-4.20		
							60.60		
						say	**667.00**		
	First Floor								
	Same as Ground Floor		1	61.00			61.00		
						say	**61.00**		
	Second Floor								
	Same as Ground Floor		1	61.00			61.00		
						say	**61.00**		
	Third Floor								
	Same as Ground Floor		1	61.00			61.00		
						say	**61.00**		
	Terrace Floor								
	Lift Shaft wall - upto Machine room		2	9.00		2.100	37.80		
						say	**38.00**		
							888.00	**444.44**	**394,663.00**
	(P.No.16, I.No4.31 S.R 2018-19)	358.00							
	Area weightage 8%	28.64							
	Total Rs	386.64							
	Tender Premium +14.95%	57.80							
	Total Rs	444.44							
	FLOORING WORK								
2	Providing and laying flooring using prepolished, **water cut/gang saw 19mm thick granite** laid over 20mm thk 1:4CM, & Jointed with neat cement slurry mixed with pigment to much shade of granite slabs including laying POP on finished surface and cleaning the surface including the cost of all materials and labour etc, complete as per specification.								
	Do- Using **19mm thick Black pearl granite** of width not less than 1200MM								
	Ground Floor	**Sqm**							
	Space for Bank		1	192.00	--	--	192.00		
	Space for Bangalore one		1	141.00	--	--	141.00		
	Skirting Length		1	136.00	--	0.100	13.60		
							346.60		
						Say	**346.60**		
	First Floor								
	Space For Bank(Area)		1	230.75	--	--	230.75		
	Skirting Length		1	78.00	--	0.100	7.80		
	Space For Post Office (Area)		1	140.75	--	--	140.75		
	Skirting Length		1	140.00	--	0.100	14.00		
							393.30		

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Sl No	Description of work	Unit	No	Dimensions L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	Second Floor								
	Qty Same as First Floor					Say	393.30		
	Third Floor								
	Qty Same as First Floor					Say	393.30		
	(P.No.110, I.No.4.47.4 S.R 2018-19)					Say	393.30		
	Area weightage 8%	2738.00					1526.50	3399.12	5,188,757.00
	Total Rs	219.04							
	Tender Premium +14.95%	2957.04							
	Total Rs	442.08							
		3399.12							
3	KSRB 12-8.1 : Constructing brick masonry inspection chamber 450x450mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover with frame (light duty) 450x450 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M15 with 20mm and downsize granite metal, foundation concrete M5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications.								
	(P.No.75, I.No.11.50.1 S.R 2018-19)	each	1	4			4	8769.67	35,079.00
	Area weightage 8%	7064.00							
	Total Rs	565.12							
	Tender Premium +14.95%	7629.12							
	Total Rs	1140.55							
		8769.67							
	Borewell								
4	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand Pump, MWS or PWSS by vertical electrical sounding by adopting Venner on Schlumberger's method, including reconnaissance survey of geological formation, geophysical investigation of existing ground water in the vicinity, its quality quantity & acceptability of the users indicating the location site, recommended depth of casing pipe required to seal the top unconsolidated formation, including an extra depth of 1.0 mtrs in consolidated formation for proper seating of casting depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site, engaging technical personal and labour required etc.								
		BW	1	--	--	--	1.00	4331.32	4,331.00
	(PRED (Bang Circle) SR 2019-20, Item No 13.04	3768.00							
	Total Rs	3768.00							
	Tender Premium +14.95%	563.32							
	Total Rs	4331.32							
5	Sinking of Borewell of 165mm dia clear, using superfast Hydraulic rig of capacity 250 PSIG and above 900 CFM and above in all strata including over burden upto 20m fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of Rig & supporting vehicle, crew charges & cost of consumables etc., complete including yield testing and the final depth with a minimum working compressor for one hour (excluding cost of casting pipes, collars								
	(PRED (Bang Circle) SR 2019-20, Item No 13.01								
	0.00 to 50.00 mtrs Including over burden	Rmtr	1	50.00	--	--	50.00	398.88	19944.00
	(PRED (Bang Circle) SR 2019-20, Item No 13.04	347.00							
	Total Rs	347.00							

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Sl No	Description of work	Unit	No	Dimensions			Quantity	Rate in Rs.	Amount in Rs.
				L	B	D			
	Tender Premium +14.95%	51.88							
	Total Rs	398.88							
6	50.00 to 100.00mtrs	Rmtr	1	50.00	--	--	**50.00**	508.08	**25404.00**
	(PRED (Bang Circle) SR 2019-20, Item No 13.04	442.00							
	Total Rs	442.00							
	Tender Premium +14.95%	66.08							
	Total Rs	508.08							
7	100.00 to 150.00mtrs	Rmtr	1	50.00	--	--	**50.00**	524.17	**26209.00**
	(PRED (Bang Circle) SR 2019-20, Item No 13.04	456.00							
	Total Rs	456.00							
	Tender Premium +14.95%	68.17							
	Total Rs	524.17							
8	150.00 to 200.00mtrs	Rmtr	1	50.00	--	--	**50.00**	618.43	**30922.00**
	(PRED (Bang Circle) SR 2019-20, Item No 13.04	538.00							
	Total Rs	538.00							
	Tender Premium +14.95%	80.43							
	Total Rs	618.43							
9	200 to 250.00mtrs	Rmtr	1	50.00	--	--	**50.00**	728.78	**36439.00**
	(PRED (Bang Circle) SR 2019-20, Item No 13.04	634.00							
	Total Rs	634.00							
	Tender Premium +14.95%	94.78							
	Total Rs	728.78							
10	250 to 300.00mtrs	Rmtr	1	50.00	--	--	**50.00**	804.65	**40233.00**
	(PRED (Bang Circle) SR 2019-20, Item No 13.04	700.00							
	Total Rs	700.00							
	Tender Premium +14.95%	104.65							
	Total Rs	804.65							
11	Supply of ISI mark 175 mm nominal bore, plain end steel casing pipe grade of steel Fe 410 of wall thickness 5.4mm thick confirming to IS 4270:2001 and latest amendments, eletric resistence welded steel tube material and confirming to IS 1387/1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5 to 7 mts. Both ends threaded confirming to IS 554/1985, one end fixed with socket conforming to IS 4270:2001 and the other end with screwed pipes. All pipes shall be reasonably free from defects. The tubes shall be reasonably straight should be with ISI marking, weighing 25.10Kg/mtr (inclusive of all taxes and duties). Prices including collar medium duty								
		Mtr	1	30.00	--	--	**30.00**	1523.09	**45693.00**
	(RDED SR 2012-13 P-iii, I-84)	1325.00							
	Total Rs	1325.00							
	Tender Premium +14.95%	198.09							
	Total Rs	1523.09							
12	Providing and fixing 175mm dia borewell cap medium class(MR)								
		Nos	1	--	--	--	**1.00**	114.95	**115.00**
	(RDED SR 2012-13 P-iii, I-85)	100.00							
	Total Rs	100.00							
	Tender Premium +14.95%	14.95							
	Total Rs	114.95							
13	M.S. Casing pipe collars "B" class (MR)								
		Nos	1	5.00	--	--	**5.00**	172.43	**862.00**
	(RDED SR 2012-13 P-iii, I-86)	150.00							
	Total Rs	150.00							
	Tender Premium +14.95%	22.43							
	Total Rs	172.43							

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Sl No	Description of work	Unit	No	Dimensions L	B	D	Quantity	Rate in Rs.	Amount in Rs.
20	Fabricating, supplying and mounting 1200x900x350 mm MS box made out of 18 SWG suitable for floor/ wall mounting, fully weather proof with double stanted top as per drawing with provision for better heat dissipation provided with hinged front cover with clear clamped to the door on EB meter side to facilitate meter reading, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with approved colour enameled metal plant etc, complete box of 36200 Sqcm, @ Rs.0.20 18 SWG								
		Nos	1	1			1.00	9041.97	**9042.00**
	(BWSSB SR P-352, It No.41)	7866.00							
	Total Rs	7866.00							
	Tender Premium +14.95%	1175.97							
	Total Rs	9041.97							
21	Supplying and fixing miniature circuit breakers/isolators on existing MCB distribution boards using necessary fixing materials and wiring complete as required 40 to 63 amps triple pole								
		Nos	1	1			1.00	778.21	**778.00**
	Ele SR 14-15 P-47, It No.6.16.2)	677.00							
	Total Rs	677.00							
	Tender Premium +14.95%	101.21							
	Total Rs	778.21							
22	Supplying andrunning of GI copper strip or grounding connection using necessary fixing material required 600x600c3mm GI plate								
		Nos	1	1			1.00	901.21	**901.00**
	Ele Sr 2014-15 (P-55, Sl no.7.3.5	784.00							
	Total Rs	784.00							
	Tender Premium +14.95%	117.21							
	Total Rs	901.21							
23	Supplying and fixing Porcelain fuse channel with cut out on the existing wooden /panel using necessary nuts bolts and washer etc., complete….								
		Nos	1	3			3.00	137.94	**413.00**
	(P-No.44 , I.No.6.7.1 KPWD Ele SR 2014-1	120.00							
	Total Rs	120.00							
	Tender Premium +14.95%	17.94							
	Total Rs	137.94							
24	Providing and fixing in position brass gate valve with C.I. Wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete s per specifications. Specification No.KBS 13.2.6/ 13.3								
		Nos	1	1			1.00	2158.90	**2159.00**
	(PWD SR 2018-19 P-92, It.No.13.37)	1878.12							
	Total Rs	1878.12							
	Tender Premium +14.95%	280.78							
	Total Rs	2158.90							
25	Supplying and laying of L.T.U.G cable having aluminium conductor PVC insulated sheathed galvanised steel wire/steel tape armoured cable with PVC outer sheathing 1.1 KV class 4 core 16 Sqmm PVC cable								
		m	1	1	25.00		25.00	149.44	**3736.00**
	KPWD Elec SR 2019-20 Pg no.40 sl no.6.4.2	130.00							
	Total Rs	130.00							
	Tender Premium +14.95%	19.44							
	Total Rs	149.44							
26	Labour charges for Laying of 1.1 KV Class UG cable 6 Sqmm to 16 sqmm								
		m	1	1	25.00		25.00	15.66	341.00
	KPWD Elec SR 2019-20 Pg no.41 sl no.6.5.1	11.88							
	Total Rs	11.88							
	Tender Premium +14.95%	1.78							

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Sl No	Description of work	Unit	No	Dimensions			Quantity	Rate	Amount
				L	B	D		in Rs.	in Rs.
	Total Rs	13.66							
27	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating in Hard soil etc., complete. complete as per specifications and direction of the Engineer-in-Charge								
		m	1	1	20.00		20.00	87.36	1747.00
	Total Rs	76.00							
	Tender Premium +14.95%	76.00							
	Total Rs	11.36							
		87.36							
28	Supplying and fixing Class-A (Medium duty) -GI pipe wall thickness not less than 3.25mm on pole/wall/Drain crossing with necessary clamping arrangements for UG Cable of 1.1 KV class 65mm								
		m	1	1	10.00		10.00	649.47	6494.00
	KPWD Elec SR 2019-20 Pg no.41 & 42 sl n	565.00							
	Total Rs	565.00							
	Tender Premium +14.95%	84.47							
	Total Rs	649.47							
29	Supplying and fixing LT cast iron pot heads suitable for 1.1 KV class UG cable filled wiith necessary bitumen / insulating compound complete. With terminals, clamps, bolts nuts and washers etc.complete for 16 Sqmm as per specification								
		Each	1	1			1.00	310.37	310.00
	KPWD Elec SR 2019-20 Pg no.42 sl no.6.10	270.00							
	Total Rs	270.00							
	Tender Premium +14.95%	40.37							
	Total Rs	310.37							
	pipe line								
30	Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in Hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m after breaking of clods complete as per specification.spacification. No.KBS 2.1(b) / 2.3.5								
	for Pipe line		1	50.0	0.60	0.75	22.50		
		Cum				Total	22.50	371.20	8352.00
	(KPWD SR 2018-19, P-5, It -2.4)	299.00							
	Area Weightage 8%	23.92							
	Total Rs	322.92							
	Tender Premium +14.95%	48.28							
	Total Rs	371.20							
31	Providing and Installing at site work P.V.C Including cost of pipe and specials and Labour, including lowering into trenches, laying true to line level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe allround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., Complete, PVC pipes 63mmdia of 6kg/cm2								
	63mm outer dia		1	50.0			50.00		
		m				Total	50.00	128.74	6437.00
	PRED SR Page NO.15,item nO.3.4.2	112.00							
	Total Rs	112.00							
	Tender Premium +14.95%	16.74							
	Total Rs	128.74							
32	KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per								
	75% Qty vide item No 31	Cum				Total	16.87	150.22	2534.00
	(KPWD SR 2018-19 P-6, It -2.11)	121.00							
	Area Weightage 8%	9.68							
	Total Rs	130.68							
	Tender Premium +14.95%	19.54							

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Sl No	Description of work	Unit	No	Dimensions			Quantity	Rate in Rs.	Amount in Rs.
				L	B	D			
	Total Rs	150.22							
33	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MORTH Chapter 1 (Page.133/Item No.17.1) 2.00*1.28*15=38.40+57=95.40.								
	BR	57.00	38.40	**95.40**					
	Retaining Wall Qty						333.00		
	Item No-08						1375.00		
					Total Qty		**1708.00**	**109.66**	**187299.00**
	(Page.133/Item No.17.1)	95.40							
	Total Rs	95.40							
	Tender Premium +14.95%	14.26							
	Total Rs	109.66							
34	Providing and fixing to wall, ceiling and floor galvanised / mild steel tube 50mm ia nominal bore with fittings (medium grade weight 1.27 Kg/mtr) B class including cost of all materials, labour charges, HOM of equipment and testing complete as per specifications. Specification No. KBS 13.2.14/13.8 (P-94, It.13.15, PWD SR:2018-19)								
		Mtr	1.00	260.00			260.00	481.69	**125239.00**
	(P-94, It.13.15, PWD SR:2018-19)	388.00							
	Area Weightage 8%	31.04							
	Total Rs	419.04							
	Tender Premium +14.95%	62.65							
	Total Rs	481.69							
									6,334,442.00
	TOTAL AMOUNT								**6,334,442.00**

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